

MDA070566

FILE COPY.

METEOROLOGICAL DATA REPORT

19702A GSRS Missile No. 086 Round No. 8-9

by

WSMR Meteorological Team

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

SECURITY CI	ASSIFICATION	OF THIS PAG	E (When Data Bnt	ered)

REPORT DOCUMENTATION	READ INSTRUCTIONS BEFORE COMPLETING FORM		
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER	
DR 1001			
19702A GSRS Missile Number 086		5. TYPE OF REPORT & PERIOD COVERED	
Round Number B-9		6. PERFORMING ORG. REPORT NUMBER	
7. AUTHOR(*)		8. CONTRACT OR GRANT NUMBER(#)	
WSMR Meteorological Team	(10	1T6657#2E126-02	
9. PERFORMING ORGANIZATION NAME AND ADDRES		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
9 Meteorological data	ve _p t _a) (11) 12/19	
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE	
US Army Electronics Research & D Atmospheric Sciences Laboratory White Sands Missile Range, New M		April 1979 13. NUMBER OF PAGES	
White Sands Missile Range, New M	nt from Controlling Office)	15. SECURITY CLASS. (of this report)	
US Army Electronics Research & D	evelopment Comd	UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
17. DISTRIBUTION STATEMENT (of the abetract entered	d in Block 20, if different from	n Report)	
18. SUPPLEMENTARY NOTES			
19. KEY WORDS (Continue on reverse side if necessary a 1. Ballistics 2. Meteorology 3. Wind	and Identify by block number)		
20. ABSTRACT (Continue en reverse state il necessary a	ad identify by block number)		
Meteorological data gathered for Number 086, Round No. B-9, are p			
4	00 844	503	

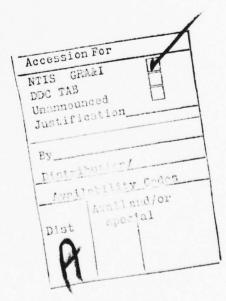
DD 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

CONTENTS

		PAGE
INTRODUC	TION	- 1
DISCUSSI	ON	- 1
MAP		- 2
TABLES		
I.	SURFACE OBSERVATIONS TAKEN AT 1100 MST AT LC-33	. 3
II.	ANEMOMETER MEASURED WIND SPEED AND DIRECTION, LC-33 FIXED POLE, TAKEN AT 1100 MST	. 4
III.	ANEMOMETER MEASURED WIND SPEED AND DIRECTION, TOWER LEVELS 1, 2, 3, AND 4, TAKEN AT 1100. MST	- 5
IV.	PILOT-BALLOON-MEASURED WIND DATA AT 1050 MST	- 6
٧.	PILOT-BALLOON-MEASURED WIND DATA AT 1100 MST	. 7
VI.	SMR SIGNIFICANT LEVEL DATA AT 1100 MST	8-9
VII.	SMR UPPER AIR DATA AT 1100 MST	10-13
VIII.	MRN SIGNIFICANT LEVELS AT 1100 MST	- 14
IX.	SMR MANDATORY LEVELS AT 1100 MST	- 15
Х.	SMR MRN MANDATORY LEVELS AT 1100 MST	16



INTRODUCTION

19702A GSRS, Missile Number 086, Round Number B-9, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1100 MST, 19 April 1979. The scheduled launch time was 1100 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m³), wind direction, wind velocity and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the alunch control room.

b. Upper Air

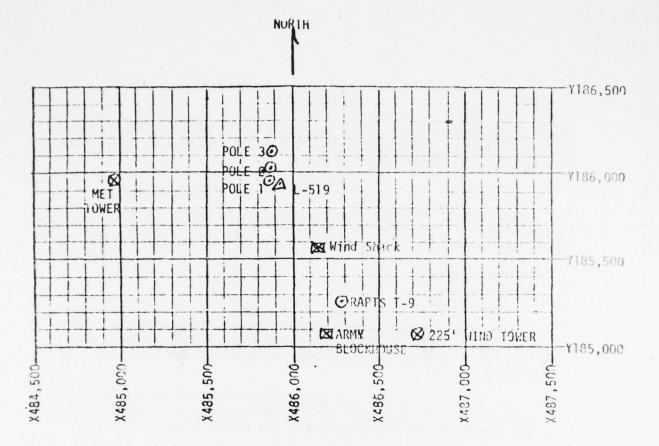
(1) Low level wind data were obtained from RAPTS T-9 pibal observation at T-0 minutes as follows:

SITE AND ALTITUDE

LC-33 1 kilometer (50-meter increments) 1050 MST

LC-33 1 kilometer (50-meter increments) 1100 MST

(2) Air structure data (rawinsonde) were collected at the SMR Met Site at T-0 minutes. Data were collected from surface to 125% of apogee in 500-feet increments.



- MET TOWER 4 Bendix Model T-120 Anemometers at 12 ft, 62 ft, 102 ft and 202 ft with E/A recorders in Wind Shack.
- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders in Wind Shack
 - (a) Pole #1 38.7 ft
 - (b) Pole #2 53.0 ft
 - (c) Pole #3 83.6 ft
- 3. 225 FT WIND TOWER 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.
- 4. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar

The data are presented in the following tabulations:

ELEVATION	3977.30	PEET/!!SL
PRESSURE	878.5	MDS
TEMPERATURE	23.2	°C
RELATIVE HUMIDITY	26	0/
DEW POINT	2.5	°C
DENSITY	1028	611/11/3
WIND SFEED	5	MPH
WIND DIRECTION	270	DECPTES
CLOUD COVER	4	Cu
CLOUD COVER	1	Cs

TABLE I. SURFACE OBSERVATIONS TAKEN AT 1100 LOCAL TIME, 19 APRIL 1979, AT LC-33, (FC) 19702A GSRS, MISSILE NO. 086, ROUND NO. B-9.

LC-33 FIXED POLE AMEMOMETER MEASURED WINDS

	POLE #1			POLE #2	2		POLE #3	3
T-TIME SEC	DIR DEG	SPEED MPH	T-TI!'E SEC	DIR	SPEED MPH	T-TIME SEC	DIR	SPEED
-30	285	01	-30	312	02	- ?0 .	273	11
-20	281	02	20	297	08	-20	277	13
-10	280	05	-10	306	07	-10	264	16
0.0	270	02	0.0	279	08	0.0	267	17
+10	277	03	+10	291	10	+10	265	15

POLE #1 = X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL

POLE #2 = X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL

POLE #3 = X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL

TABLE	_II					
TYPE _	19702A	GSRS (FC)	MISSILE NO.	086	POUND MG. B.	-9
LAUNCH	IED FROM	LC-33	DATE	19 April 1979	9 TIME 1100	LST
MOTE:	WIND D	IRECTIONS	ARE REFERENCED	TO THE FIFTH	AZIMUTII	
OR TRU	E HORTH	TRUE NO	RTH			

LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

ı	EVEL #1 12 ft		LEVEL #2 62 ft			
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	
-30	280	22	-30	264	24	
-20	267	18	-20	261	23	
-10	276	16	-10	265	21	
0,0	278	16	0.0	263	21	
+10	266	14	+10	260	19	
ı	EVEL #3 102 ft		LEVEL #4 202 ft			
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED	
-30	278	23	-30	268	17	
-20	274	19	-20	267	19	
-10	278	19	-10	266	18	
0.0	278	19	0.0	265	17	
+10	276	18	+10	266	18	

WTSM COORDINATES: X484,082.64 Y185,957.73 H3983.00 (base)

TABLE	III	*							
TYPE _	19702A	GSRS (FC)	MISSI	LE NO.	08	86	ROUND	NO. B-9	
LAUNCH	ED FROM	LC-33	DATE	19	April	1979	TIME	1100	MST
NOTE:	WIND D	IRECTIONS	ARE REFER	RENCED	TO THE	FIRIN	G AZIM	UTH	
OR TRU	IE NORTH	TRUE NO	RTH .						

PILOT BALLOON MEASURED WIND DATA

HEIGHT METERS	DIR DEG	SPEED MPH
SUR	270	4.5
50	267	5.5
100	265	6.5
150	276	16.0
200	270	16.5
250	229	16.0
300	246	16.0
350	252	16.0
400	254	17.5
450	261	15,5
500	260	19.0

HEIGHT METERS	DIR	SPEED MPH
550	265	19.0
600	264	18.5
650	268	17.0
700	267	16.5
750	263	14.0
800	275	12.5
850	271	12.0
900	270	13.5
950	265	13.0
1000	272	13.5
1050		

TABLE IV	
RELEASED FROM LC-33 DATE 19 April 1979 TIME 1050	T
RELEASE POINT COORDINATES (WSTM) $\chi = 486,037.24$ $\gamma = 182,350.16$ H = 3977.30)
MISSILE TYPE 19702A GSRS (FC) MISSILE NO. 086 ROUND NO. B-9	
MISSILE LAUNCHED FROM LC-33 DATE 19 April 1979 TIME 1100 LS	T
NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH	
OR TRUE NORTH TRUE NORTH .	

PILOT BALLOON MEASURED WIND DATA

HEIGHT METERS	DIR DEG	SPEED MPH
SUR	270	4.5
50	267	3.5
100	264	3.0
150	274	19.5
200	268	20.5
250	266	17.0
300	273	17.0
350	267	17.5
400	263	20.5
450	265	17.5
500	260	21.5

HEIGHT METERS	DIR	SPEED MPH
550	266	23.0
600	252	21.5
650	258	22.5
700	259	20.5
750	266	17.5
800	270	17.0
850	274	17.5
900	283	19.0
950	276	16.5
1000	264	18.0
1050		

TABLE V								
RELEASED FROM	LC-33	DATE	19 April	1979	TIME	1100		LST
RELEASE POINT	COORDINATES	(WSTM)	x = 486,03	7.24	Y = 182,350	.16	H = 3977	. 30
MISSILE TYPE	19702A GSRS	(FC) M	MISSILE NO.	086	ROUND	NO.	B-9	
MISSILE LAUNCE	IED FROM LC	-33	DATE 19	April	1979	TIME	1100	LST
NOTE: WIND D	IRECTIONS ARE	REFERE	MCED TO THE	FIRI	NG AZIMUTH			
OR TRUE NORTH	TRUE NORTH							

PERCENT PERCENT	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
DEWPOINT CENTIGRAD	
TEMPE AIR DEGREES	11111111111111111111111111111111111111
GECMETRIC ALTITUDE MSL FEET	3997.3 4534.1 6375.9 10220.5 11249.3 11249.3 11249.3 11249.3 11249.3 11240.0 1275.0
PRESSURE MILLIBARS	8878900 865180 678200 678200 678200 678200 678200 678300 678300 67840

STATION ALTITUDE 3997.30 FEET MSL 19 APR. 79 1100 HRS MST ASCENSION NO. 69

SIGNIFICANT LEVEL DATA 1090060009 S M R

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

REL.HUM. PERCENT

TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE -643.9 -61.9 -62.9 -57.2 -53.3 -60.9 PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET 61283.9 62905.2 63253.7 65102.1 65085.7 64191.0 77085.2 78995.9

9

METRIC TTUDE FEET	PRESSURE MILLIBARS	TEMP AIR DEGREES	PERATURE DEWPOINT CENTIGRADE	REL . HUM.	DENSITY S GM/CUBIC METER	SPEED OF SOUND	WIND DA DIRECTION DEGREES(TN)	SPEED KNOTS	INUEX OF REFRACTION
. 26	878.	3		7	026.	72.	0 77	ŝ	.00026
0.000	877.9	23.7	3.6	27.0	1026.8	672.3	40.	S	.00026
000	862.	0		+	021.	600	66	å	.00025
00	847.	8		1	.600	600	56.	0	.00025
560.	832.	1-		-	.966	64.	62.	3	.00024
.020	817.	5		+	83.	629	.99	.9	.00024
500.	802.	3.		8	71.	.09	.99	0	.00024
.000	788.	Š		è	59.	59.	.00	3	.00024
2000	774.	.0	9.1	5.	47.	57.	.99	3	.000023
.000	760-		-	6	36.	55.	.09	3	.00023
2000	146.			5	54.	53.	.09	-	.00023
.000	732.		2	9	12.	51.	.09	å	.00022
2000	719.		5	6	01.	64	050	9	.00022
.000	.60/		3.	3	.68	47.	000	+	.00022
200	692.		+	9	77.	40.	68°	ů	.00021
.000	679.		17	91	65.	tt	65.	~	.00021
-005	. 190	•	16.	-1	20.	t 3°	59.	ô	.00019
0000	. 500		21.	-	34.	43.	200	å.	.00019
000	045		22	· 0	16.	to:	000	40	.00018
000	010		י ה	3	0 0		3 -	o K	81000
00	600	10	26	7	700	· · ·	1 7) 10	0000
00	594	1 "	21	t,	67.		0 0	, ,	1000.
.000	583.	t	27.	t	56.	30	00	9	71000
9009	572.	2	28.	+	45.	37.	08.	1	00016
.000	561.	7.	56	+	34.	35.	10.	1	.00016
2000	550.	å	30.	+	23.	34.	19.	6	.00016
.000	539.		31.	+	13.	32.	27.	å	.00016
.00	529.	10.	32.	5	05.	31.	30.	5	.00015
.000	518.	11:	32.	Š	.06	30.	32.	6	.00015
2000	508.	12.	33.	5	78.	29.	33.	3	.00015
.000	• 964	12.	33.	5	.99	20.	36.	5	.00015
2000	488.	13.	32.	7	24.	28.	39.	70	.00014
.000	479.	14.	32.	ω,	4 15	27.	42	0	.00014
500.	469.	150	32,	ů	34.	25.	* 55	10	.00014
.000	4004	16.	32,	t	25.	23	40,4	5	+000014
2000	451.	-18.2	132.8	0	100	22.	10 1	'n	.00013
.000	441.	19.	35.	°	.90	20.	000	4	000013
2002	41.000							*	0000
000	435	200	38.	8	97.	19	242.4	7 E	1,000134

a. ≥ ∨	TION ALTITUDE 3997.30 FEET MSL	UPPER AIR DATA 1090060069	GEODETIC COO
	PR. 79 1100 HRS MST	Œ X	32.48034

TEMPERATURE REL.HUM. DENSITY SPEED OF WIND DATA NOTES NOTE TO CHES. S.M. R. CHOOGOOGY S.M. R. CHOOGO S.M. R.	20.7 570.5 236.6 47. 20.7 570.5 236.1 46. 07.5 566.0 233.6 49. 99.7 569.2 241.0 49. 91.7 569.9 242.0 49. 84.0 570.7 243.9 49. 76.5 571.5 244.8 49.
TEMPERATURE REL.HUM. DENSITY SPEED OF WIND DA SMERS. 2000 DERECTION DESCRIPTION DENSITY SPEED OF WIND DA SMERS. 2000 DERECTION DESCRIPTION DENSITY SMERS. 2000 DERECTION DESCRIPTION DESCRIPTION DENSITY SMERS. 2000 DERECTION DESCRIPTION DESCRIP	20.7 570.5 230. 20.7 570.5 230. 07.5 565.0 233. 99.7 569.9 241. 91.7 569.9 242.
7.30 FEET MSL 100 HRS MST TEMPERATURE AIR DEMPOINT PERCENT GN/CUBIC SOUND OF SECOND	20.7 20.7 20.7 20.7 50.7 50.9 99.7 50.9 50.9 50.9 50.9 50.9 50.9
TEMPERATURE REL.HUM. DENSITY AIR DEWPOINT PERCENT GM/CUBIC CESSE CENTIGRADE REL.HUM. DENSITY AIR DEWPOINT PERCENT GM/CUBIC C23.1	1860100 1860 1860 1860 1860 1860 1860 18
7.30 FEET MSL 100 HRS MST 100 HRS MST TEMPERATURE AIR DEWPOINT PERCENT DEGREES CENTIGRADE -24.4 -25.7 -26.2 -26.2 -26.2 -26.5 -26.	
7.30 FEET MSL 100 HRS MST 100 HRS MST TEMPERATURE DEWPOINT DESCRIPTION 0.00	
100 HR 10	
PRESSURE PRESSURE PRESSURE #ILLIBARS #115.4 #16.4 #1	72.00
STATION AL STATION AL SCENSION AL ASCENSION AL ASSOCIATION	0000000

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

OA	50	
a.	00	
AIR	00	
a:	109000	0
a	10	2
9		6

GEODETIC COOMDINATES 32.48034 LAT DEG 106.42307 LON DEG 1.000043 1.000042 1.000041 1.000040 1.000039 1.000038 1.000048 1.000047 1.000045 1.000045 1.000044 1.000060 1.000058 1.000057 1.000055 1.000054 1.000052 1.000036 1,000034 1.000032 1.000028 1.000028 1.000028 1.000028 1.000028 1.000028 1.000049 .000035 1.000030 1.000031 REFRACTION WIND DATA DIRECTION SPEED DEGREES(IN) KNOTS SPEED OF SOUND KNOTS 52.0 51.3 DENSITY GM/CUBIC METER REL.HUN. PERCENT TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE STATION ALTITUDE 3997.30 FEET MSL 19 APR. 79 1100 HRS MST ASCENSION NO. 69 MILLIBARS PRESSURE GEOMETRIC ALTITUDE MSL FEET

DETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG	INDEX OF REFRACTION	1.000023 1.000022 1.000022 1.000019 1.000019 1.000019 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000010 1.000011 1.000011 1.000011 1.000011 1.000011 1.000011 1.000011 1.000011 1.000011 1.000011 1.000011 1.000011
GEODETIC 32.4 106.4	SPEED KNOTS	44444444444444444444444444444444444444
	WIND DATA DIRECTION S DEGREES(TN) K	00000000000000000000000000000000000000
A T 40	SPEED OF SOUND KNOTS	\$
UPPER AIR DATA 1090060069 S M R	DENSITY S GM/CUBIC METER	11 000 000 000 000 000 000 000 000 000
3	REL . HUM. PERCENT	
S MST	PERATURE DEWPOINT CENTIGRADE	
3997.30 FEE 1100 HRS	AIR DEGREES	166220 166220
11TUDE	PRESSURE MILLIBARS	00000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
STATION AL 19 APR. 79 ASCENSION	GEOMETRIC ALTITUDE MSL FEET	6350000 6450000 6550000 6550000 6550000 6550000 6550000 6550000 705000 7250000 7250000 7250000 7250000 7250000 7250000 7250000 7250000 7250000 7250000 7250000 7250000 7250000 7250000 72500000 7250000 7250000 7250000 7250000

DATA	
SIGNIFICANT LEVEL	SKR
Σ Σ	

STATION ALIITUDE 3997.30 FEET MSL 19 APR. 79 1100 HRS MST ASCENSION WO. 69

COORDINATES	W	ш
GEODETIC COOP	32.48034	106.42307
15 MN LEVEL DAIN	α.	

PRESSURE MILLIBARS	2.760+1	3.000+1	3.280+1	5.000+1	5.530+1	5.800+1	6.350+1	6.460+1	7.000+1	7.470+1	8.460+1	9.360+1	1.000+2
TEMPERATURE AIR DEG C	-46.6	-20.9	-53.3	-57.2	-57.2	-62.6	-61.9	9.49-	-63.9	-67.3	-63.0	-63.9	-61.9
DEW PT DEP DEG C	00	66	66	66	66	66	65	66	66	66	66	66	66
₹ ₩ ₩ ₩ \$	*** 6666-	*** 6666-			.,	٠	3.	. +	•	7.	.6	14.	•61
OATA N N S S S S S S S S S S S S S S S S S S	*** 5066-	*** 66666-	-1-	:		7	-1-	-	-1-	3.	.9	t.	•
SPEED WIND D	***6666	*** 6666	5.	3.	-7		. 47	·	. 10	. 0	11.	14.	20.
DIRECTION DEG (TN)	****6666	*** 6666	277.	253.	243.	300.	298.	291.	276.	249.	239.	252.	252.
SEOPOTENTIAL ALTITUDE DECAMETEKS	2452	2394.	2340.	2071.	2007	1977.	1921.	1911.	1862.	1622.	1745.	1684.	1643.

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

MANDATORY LEVELS 1090050069 S M R

WIND DATA DIRECTION SPEED DEGREES(IN) KNOT	20.	24.		14.	22.	7	19.	35.	35.	45.	-,	39.	5 45.	.94	.64	.64	44.	36.	19.	15.	3.	.0	3.	
RCENT	7.			65. 267.4	•		•	•	•		9.	237	235	236	243	242	242	252	234	275	312	251	291	
TEMPERATURE KEI R DEMPOINT PEI EES CENTIGRADE			·t.	0.	9.		5	٠.		.7	0.													
AI	8	13.5	7.8	1.9	σ.			ż	8	2	-33.8	:	-50.2	÷		-57.2	6	-61.9		6.29-	3	-57.2		c
GEOPOTENTIAL FEET	4913.	.4009	8350.	021	12160.	C	10	m	10	24356.	.76422	30978.	34952.	39637.	42381.	45583.	49350.	53917.	58414.	610740	64181.	67935.	72580.	7245
PRESSURE GE MILLIBARS	5	00	50	70000	656.0	0.009	550.0	200.0	450.0	0.004	350.0	300.0	250.0	200.0	175.0	150.0	125.0	100.0	80.0	70.0		50.0	40.0	0 04

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE, WAS USED IN THE INTERPOLATION. *

MRN MANDATORY LEVELS

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG	PRESSURE MILLIBARS	3.000+1 4.000+1 5.000+1 6.000+1	7.000+1 1.000+1 1.2000+1 1.5000+2 2.000+2 3.000+2 4.000+2 4.500+2	5.5000.2 5.5000.2 7.5000.2 7.5000.2 8.5000.2 8.5000.2
	TEMPERATURE AIR DEG C	1550.9 155.1 162.2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	90 11 12 11 11 11 11 11 11 11 11 11 11 11
	DEW PT DEP DEG C	666 666 666	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0400010 1100000
1090060054 S M R	1 σ 3 υ	-9999.** 1. 3.	• • • • • • • • • • • • • • • • • • •	**************************************
	DATA N-S SCS	-99999.**		စ်စ်၌ဝင်္ခခံကိ
STATION ALTITUDE 3997.30 FEET MSL 19 APR, 79 1100 HRS MST ASCENSION MO. 69	SPELD MPS	99999.**	200 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	10. 11. 10. 10.
	DIRECTION DEG (TN)	9999.** 292. 252. 312.	, , , , , , , , , , , , , , , , , , ,	220 2403 2603 2665 2666
	GEOPOTENTIAL ALTITUDE DECAMETERS	2396. 2212. 2071. 1956.		91 8435. 371. 2311. 255.

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.